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Navy Case No. 74023

Abstract of the Disclosure

1 A programmable gray-scale liquid crystal display comprises
2 a polarizer operably coupled to a beam of incident light to
3 pass a beam of polarized light having a polarization axis. A
4 sequence of liquid crystal display pixels serially aligned with
5 the beam of polarized light controls the angle of the
6 polarization axis. An analyzer passes a gray-scale portion of
7 the beam of polarized light from the sequence of liquid crystal
8 display pixels corresponding to the angle of the polarization
9 axis. Each pixel in the sequence may be independently
10 programmed to vary the angle of the polarization axis for
11 calibrating the display to a standard gray-scale and for
12 correcting faulty pixels with VLSI on-chip driver and interface
13 circuits.